

How to Upskill for Digital Transformation: a Play-by-Play Guide

November 12, 2019



COURSERG for Business

Agenda

November 12, 2019 2:00 PM EST



Kelly Murphy Enterprise Content Strategy Manager



Kyle Clark Senior Skills Transformation Consultant

Digital transformation and the learning landscape

Global challenges and opportunities Why learning matters

Essential skills for digital transformation

The Essential Skills Map for Digital Transformation Essential skills by industry

How to build the skills you need

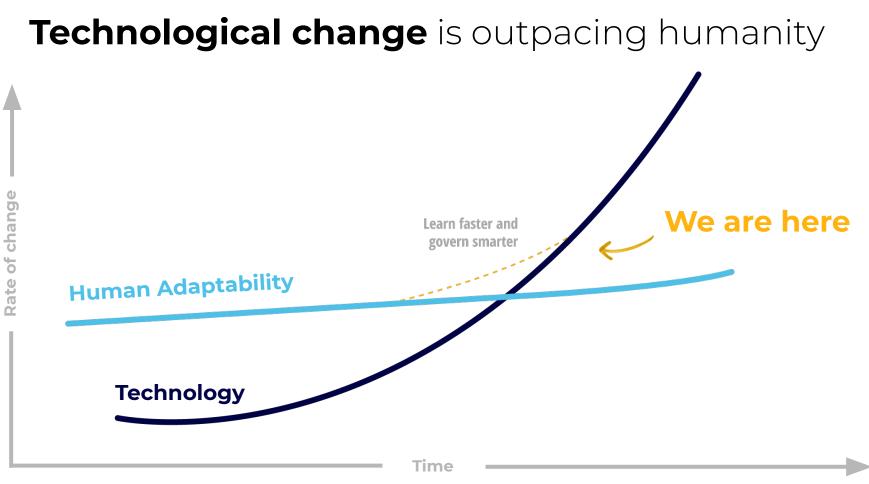
Plan Measure Curate Learn

Q&A





Digital transformation and the learning landscape



This is what we are hearing from business leaders:

"Digital business models are **taking over** our industry." "We can't hire enough data scientists. And we need to build fluency in emerging tech."



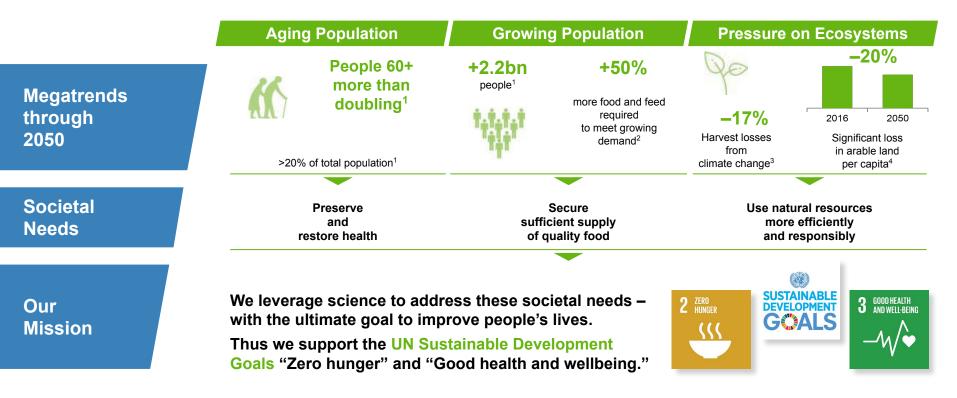
"What are the **most** relevant skills right

now?"



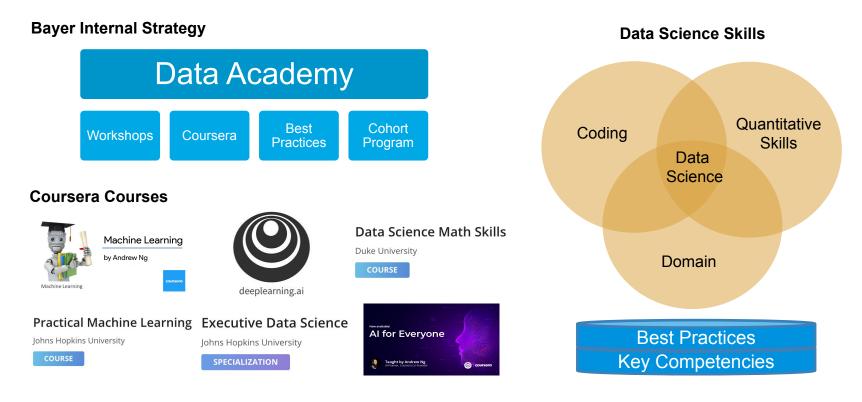
Global Megatrends in Health & Nutrition

Attractive Macro Drivers of Our Businesses



Bayer Data Academy Program

Develop data science skills across Bayer Crop Science

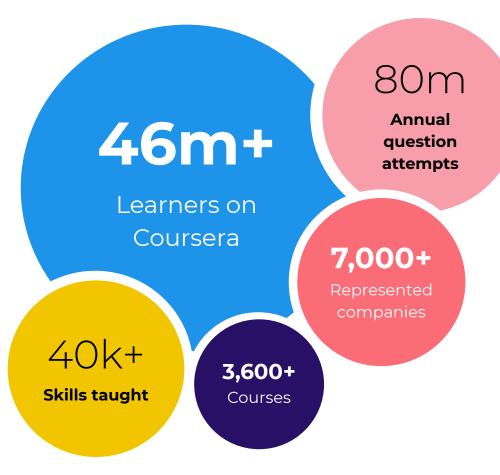


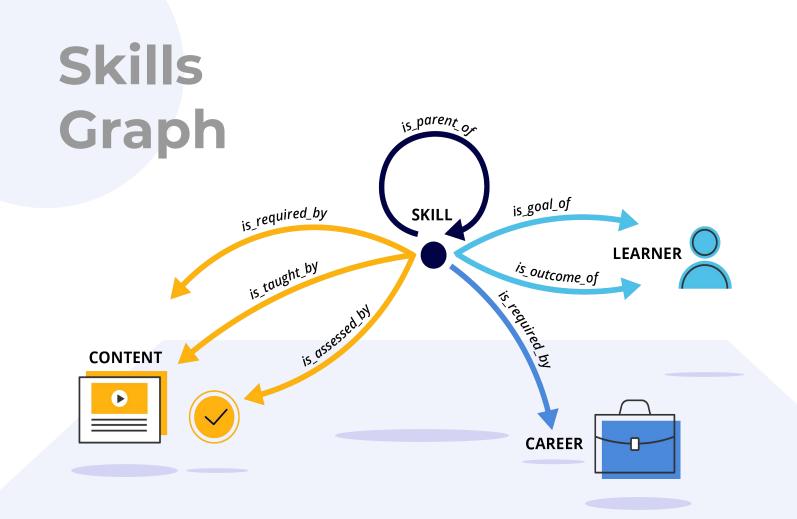


Essential skills for digital transformation

The world's largest learning platform delivers insights on the skills of today and tomorrow.

As the largest online learning platform in the world, Coursera leverages data on the trends, gaps, and benchmarks for thousands of companies & millions of learners.





Essential Skills Map for Digital Transformation

	Engineering	Data Science	Product	Finance	Marketing	Managers	Sales
Business Skills	Agile Management Leadership Product Management	Business Case Dev. Project Planning Leadership	Agile Management Product Management Disruptive Innovation	Mathematical Finance Financial Modeling Financial Engineering	Digital Marketing Digital Strategy Social Media	Leadership Change Management Design Thinking	Pricing Negotiation Business Analytics
Tech Skills	Debugging Algorithms Cloud Computing	NLP Sentiment Analysis Deep Learning	User Experience Design User Research Agile Software Dev.	Microsoft Excel VBA Algorithmic Trading Visual Analytics	Agile Software Dev. Web Analytics SEO	Cyber Security Artificial Intelligence Emerging Tech	Network Software Networking Hardware Computer Troubleshooting
Data Skills	Python Machine Learning Big Data	Python Tensorflow Machine Learning	Big Data SQL Data Visualization	Forecasting Business Analytics Data Visualization	Big Data Marketing Analytics SQL	Cloud Computing Analytics Data Management	Internet Privacy Data Analysis Big Data

Business Skillis Agle Management Ladership Business Cale Dev. Project Planning Lodership Agle Management Product Management Mathematical Feature Product Modeling Digital Markening Digital Strategy Loadership Tech Detagging N/P Loadership Mathematical Strategy Social Media Design Threads Tech Detagging N/P Loadership More Experiment Design Moresoft Experime Detagging N/P	ngineering Data Science Product Finance M	arketing Managers Sales
Tech Amother Sentinger Ankeis Hard Reason Mitching Wah Analysis Artificial International	Leadership Project Planning Product Management Financial Modeling Dig	jtal Strategy Change Management Negotiation
Cloud Computing Deep Learning Aglie Schuare Dev. Visual Analytics SED Emerging Tech	Algorithms Sentiment Analysis User Research Algorithmic Trading Wi	eb Analytics Artificial Intelligence Networking Hardwar

- Coursera has conducted a deep dive into 5 industries, highlighting the key skills across 7 functions
- Similarities exist across industries, but each industry has unique skills critical to successfully navigating digital transformation

Industry Deep Dives

- Financial Services
- Telecom
- Manufacturing
- Professional Services
- Tech Sector



How to build the skills you need



Companies that are upskilling for digital transformation face four challenges.

Plan: No clear plan for skills transformation.

Measure: No defined measurement of success or ROI.

Curate: Difficulty selecting and recommending the right content.

Learn: Lack of sustained engagement to ensure success.

Plan

PART 1 Why we're doing this: Crafting your Northstar Statement							
Your 1st KPI	Your 2nd KPI	Your 3rd KPI					
PART 2 The Who &	What: Prioritizing the	e Essential Skills Map	*				
PART 3	Motivation "Want to"	Ability "Can do"					
Personal "me"	1	2					
Structural "us"	3	4					
Social "culture"	5	6					

PART 1

Develop broad proficiency in Python programming and data analysis to democratize the use of in-house, custom models across the business.

PART 2							
Financial Services	Engineering	Data Science	Product	Finance	Marketing	Managers	Sales
Business Skills	Devops Statistical Analysis Blockchains	Data Manipulation Statistical Analysis A/B Testing	Concept Testing Customer Value Proposition Digital Strategy	Financial Accounting Financial Modeling Financial Markets	Tableau Software Predictive Analytics Digital Marketing	Business Operations Business Process Mapping Consumer Confidence Index	Financial Markets Pricing Cash Flow Forecasting
Tech Skills	Application Programming Interfaces Computer Architecture Cloud Computing	Natural Language Processing Data Structure Computer Vision	Business Model Canvas E-Commerce User Experience	Microsoft Excel VBA Database Index Digital Forensics	Visual Analytics Query Language Agile Software Development	Decision Tree Monte Carlo Method Cryptography	Game Theory Network Theory Crytography
Data Skills	Deep Learning Machine Learning Tensorflow	Python Programming Tensorflow Machine Learning	Python Programming Big Data SQL	Forecasting Sensitivity Analysis Statistical Programming	SQL Big Data Python Programming	Sensitivity Analysis Big Data Forecasting	Financial Data Analysis Sensitivity Analysis Forecasting

Measure

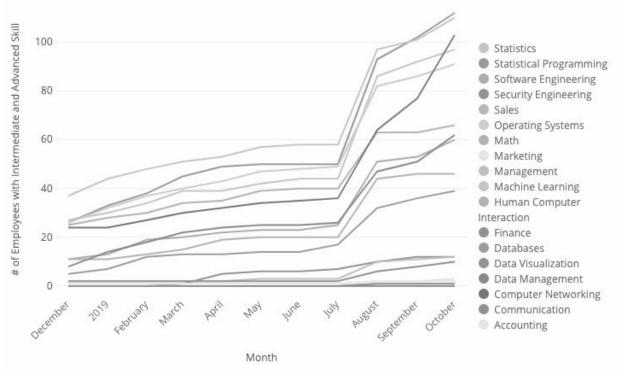






Understand your org's level of skill mastery, with new and classic learning metrics Discover the top learners in your organization for different skills and proficiency levels Understand how competitive your talent is, with industry benchmarks

Skill Mastery Over Time



WHAT IT DOES

See how many of your learners have reached the Intermediate and Advanced levels of mastery over time, by skill.

Why does this matter?

See if your learners are tracking toward mastering the skills they need

Identify lagging skill areas that may need additional growth and investment

Understand if your learning engagement strategy is effective

Focus on opptys to introduce new content to acquire the skills your business needs

How is this calculated?

Total number of people who have reached, for a given skill, either an intermediate or advanced level, over time.

Curate

Understand your skills and roles

Roles

Engineer Analyst Manager Data Scientist

<mark>Skills</mark>

Data analysis Storytelling AI & Machine Learning Emotional intelligence Negotiation Influencing

2. Map to content

AI & Machine Learning

Advanced Machine Learning and Signal Processing

3. Review and refine

Course: Advanced Machine Learning and Signal Processing

Feedback: too advanced, need intro to machine learning

Replace with: Introduction to Machine Learning **4. Launch** your program

Data Leadership Program

AI & Machine Learning for Data Scientists

Data for Everyone

Introduction to Business Analytics

Data Analytics for Data Professionals

Learn

Key Elements to Successful Learning Program

Executive Sponsorship

Exec need to be roll-modelling the expected behaviour for the rest of the organisation

Change management

Include leaders, managers, L&D and business units to maximise success. Focus on the 'why'

Communication plan

The once and done approach does not work. Comms need to be continual and creative (i.e. multi-channel) to drive sustained engagement Workplace changes

Learning needs to become part of the everyday, for example time blocked out in calendars for learning

Community

Publically celebrate early adopters and bring them onboard as evangelists. Create study groups to drive community Take-A-Ways

Download the **Playbook**

https://www.coursera.org/business/e ssential-skills-playbook/ *Available Nov. 13th

The Essential Schills Playbook Prepare your organization digital transformation Coursero to Russes

Address the **four challenges**

Companies that are upskilling for digital transformation face four challenges.

Plan: No clear plan for skills transformation.

Measure: No defined measurement of success or ROI.

....

Curate: Difficulty selecting and recommending the right content.

Learn: Lack of sustained engagement to ensure success.

Contact <u>Coursera</u> for help





Home | Product | Content | Compare Plans | Resources | Blog

Curated Course Collections to get you started. The best courses on Coursera—mapped to your learners' needs.

Data Science for Business Analysts The conce calcurate heats have to include the science of the science of the include the science of the science of the science of the include the science of the science of the science of the science of the include the science of the science o

coursera for Business



Visit www.coursera.org/business to learn more.





